

**Combustion engine and fuel cell system combination device uses exhaust gases from combustion engine for heating fuel cell system to its required operating temperature**

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- international: *H01M8/04; H01M16/00; H01M8/04; H01M16/00; (IPC1-7): B60L1/00; B60L11/18; H01M8/00*  
- european: H01M8/04; H01M8/04B2  
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**Abstract of DE19913795**

The device has a combustion engine (1) and a fuel cell system (2) providing the electrical energy required by the electrical devices used for operation of the combustion engine, coupled to a buffer battery (26). The fuel cell system has at least one heat exchanger supplied with the hot combustion gases from the combustion engine until a temperature sensor detects that the required operating temperature for the fuel cell system is reached.

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Int. Cl.<sup>7</sup>:

H 01 M 8/02

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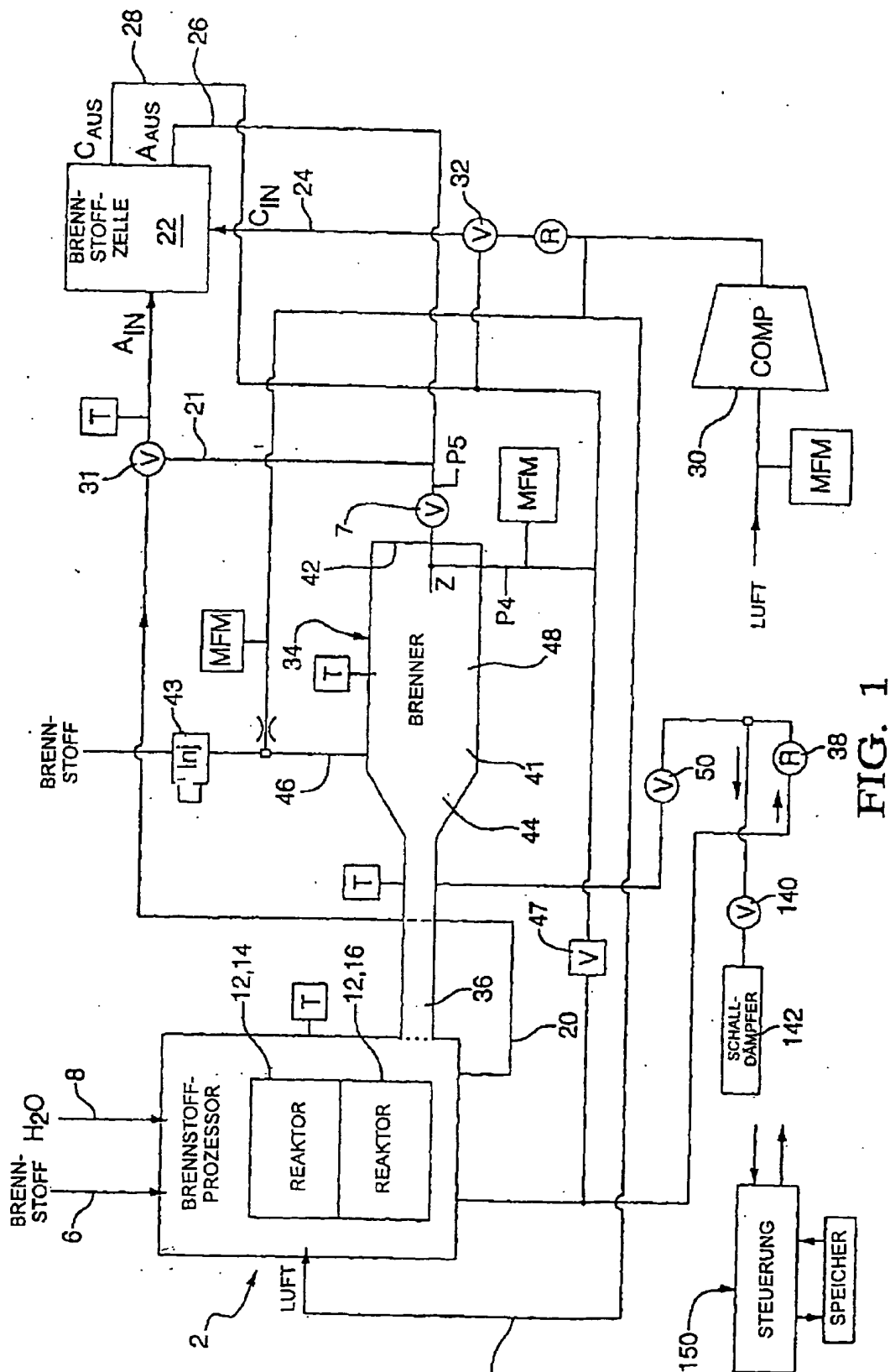


FIG. 1